

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number  
**WO 2005/048828 A1**

(51) International Patent Classification<sup>7</sup>: A61B 1/31, 1/32

(21) International Application Number:  
PCT/IT2004/000629

(22) International Filing Date:  
16 November 2004 (16.11.2004)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:  
MI2003A002278  
21 November 2003 (21.11.2003) IT

(71) Applicant (for all designated States except US):  
**ETHICON ENDO-SURGERY, INC.** [US/US]; 4545  
Creek Road, Cincinnati, OH 45242 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KUHNS, Jesse,**  
**James** [US/IT]; Viale Città d'Europa, 674 B2, I-00144  
Roma (IT). **D'ARCANGELO, Michele** [IT/IT]; Via  
Benedetto Croce, 26, I-00142 Roma (IT). **BILOTTI,**  
**Federico** [IT/IT]; Via Padre Filippini, 109, I-00144 Roma  
(IT). **LONGO, Antonio** [IT/IT]; Via Maqueda, 8, I-90134  
Palermo (IT).

(74) Agents: **VITTORANGELI, Lucia** et al.; Jacobacci &  
Partners S.p.A, Via Senato, 8, I-20121 Milano (IT).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

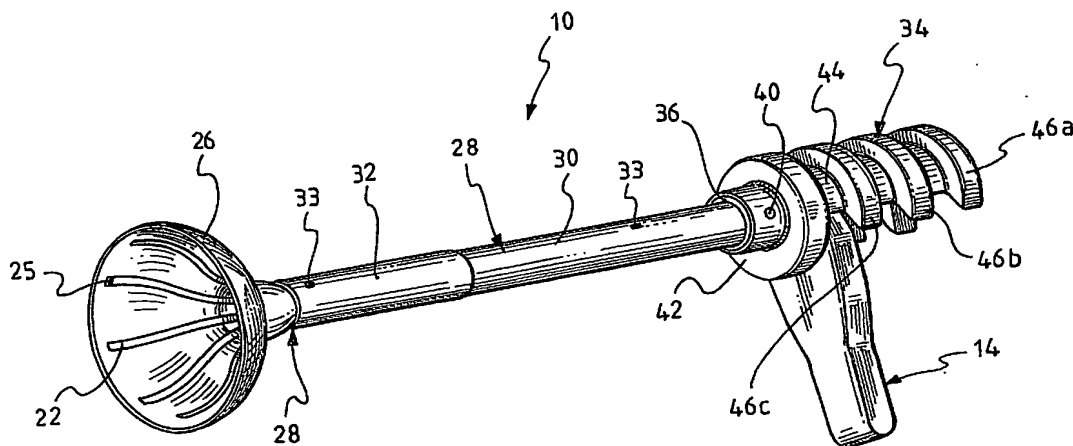
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: A DIAGNOSTIC DEVICE FOR TUBULAR ANATOMICAL STRUCTURES



(57) Abstract: A diagnostic device (10) for pathologies of tubular anatomical structures comprises a tubular elongated structure (12, 28) developing between a proximal end and a distal end and is adapted to be inserted in the tubular anatomical structure, means (22) for locally dilating the walls of the tubular anatomical structure being associated with the distal end of said elongated structure, said means for locally dilating being movable between a closed position for introducing the device and at least one open position for viewing and evaluating the pathology, and control means being associated with the proximal end of the elongated structure, said control means being operatively connected to said means for locally dilating, in order to move them between the closed position and the open position, and vice versa.